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EMI 1.1

During the conventional adhesive bond of books the next to each other disposed crease elbow of the book block at the so-called Bundsteg becomes for example in such a manner processed by milling that single sheets develop, which are afterwards glued.

This type of the binding made possible a relatively good flat couch behavior of the book, has however a relatively bad durability, so that the books in the area of the collar break apart after shortest time. The cause for this consists in particular of the fact that the glue laid on on the backbones does not connect the single sheets in sufficient mass. Here in particular the area between two sheets is particularly problematic.

With the very often used painted paper a chalk layer is applied in each case on der Ober and lower surface of the sheets. The adhesive penetrates in the area of the Bundsteges into the paper structure and connects the single sheets. In the area of the laid on chalk layer however the adhesive cannot penetrate, so that in this area a insufficient binding develops, which can break open after short use.

For the avoidance of this problem the binding is < with; RTI ID=0.0> hō < /RTI> herwürtigen books by thread attaching supports. Several for crease elbow, for example four crease elbow are into one another-put, and by thread attaching as well as

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Gluing connected with the gauze. This type of the binding is quite stable, but one accepts for it different disadvantages. So it cannot be prevented reliably that in the area of the needle partings of the thread attaching glue penetrates through the holes and it < then between the sides to; RTI ID=0.0> so-called "windowpane effect" < /RTI> comes. Beyond that books with thread attaching have a relatively bad flat couch behavior, so that for example the effect of images, which overflow in the area of the collar of one on the other side, is strongly impaired.

The invention is the basis the object to indicate a book as an adhesive bond who exhibits a clearly increased durability of the binding.

This object is solved according to invention by the features of the claim 1.

Further embodiments of the invention are article

EMI2.1

Book block from a multiplicity of quadripartite, next to each other disposed crease elbow exists, which are glued with one another in the crease edge range.

▲ top Particularly with use of painted paper the crease edge range becomes the crease elbow in such a manner processed, - that the adhesive used with the gluing can penetrate in the crease edge range into the crease elbow, so that a durable connection between the paper fibers, the glue and the gauze develops.

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In a special embodiment of the invention a fixed Buchdecke is intended, which edges a moving exhibits, whereby the Buchdecke is connected with the book block in the area of the Rückenkante. One < RTI ID=0.0> zweckmässigerweise< /RTI> a gauze intended, which with the crease edge range the crease elbow is glued and with the Rückenkante of the Buchdecke.

As a result of the gluing the individual quarterly elbow within the crease edge range arises opposite the milled Bundsteg in the case of the conventional adhesive bond one around for instance the 1,5-Fache increased attack region for the adhesive. Thus also an accordingly increased durability of the binding is ensured. With use of painted paper the crease edge range is broken or otherwise processed, so that the adhesive can penetrate over the entire area into the fiber structure of the crease elbow. Further advantages and embodiments of the invention are more near described on the basis the following description of an embodiment and the design.

In the design Fig show. 1 a cross section representation one erin < RTI ID=0.0> dungsgemässen< /RTI> Book and Fig. 2 an increased cross section representation in the area of the backbone.

The book explained in the design essentially consists of a Buchdecke 1 and a book block 2, whereby the Buchdecke by fixed upper book DEK

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kel la and a fixed lower book cover < RTI ID=0.0> Ib</RTI> one forms.

In the following becomes first on the type of the binding on the basis the Fig. 2 more near received: The book block 2 consists of a multiplicity of quadripartite, next to each other disposed crease elbow 2a, which is glued with one another in the crease edge range 2b. The glueing takes place with help of a gauze 3 as well as a suitable adhesive 4.

With this type of the binding is to be ensured that the crease edge range 2b the crease elbow 2a the penetration of the adhesive into the fiber range the crease elbow permitted. With use of painted paper, with on which on the surface a chalk layer 5 is laid on, as in Fig. 2, must the crease elbow within its crease edge range 2b in such a manner processed is illustrated become that the adhesive used with the glueing can penetrate 4 in the crease edge range into the crease elbow. This processing can take place for example via the fact that with the grooving consciously a fracture of the paper line takes place. Also with painted paper the sufficient penetration of the adhesive in the crease edge range is ensured by this measure.

In the design the penetration of the adhesive with arrows is characterized.

As a result of the curved crease edge range 2b the quadripartite, next to each other disposed crease elbow arises opposite the conventional binding, with which in the area of the Bundsteges a milling takes place, one around that about 1, < RTI ID=0.0> 5-fold increased attack region für</RTI> the adhesive 4.

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Those the invention underlying examinations showed the fact that itself thereby 50% higher stop barkeit than in the case of a conventional adhesive bond results in.

With the binding according to invention a fixed Buchdecke is appropriately used, those in Fig. 2 provided with the reference numeral 1.2 and one is < RTI ID=0.0> Rückenkante</RTI> 1. 2. A exhibits. The Buchdecke is in the area of its Rückenkante 1. 2. A with the book block glues.

Like in particular from Fig. 1 evidently becomes, is the upper and lower book cover 1.1 and 1.2 completely from each other separated. The connection with the book block 2 happens at the one in the area of the spine with Begazung and gluing, like in Fig. 2 more near represented.

Beyond that the book exhibits a Schutzmunschlag 8, which stuck fixed together with the Buchdecke in the area of the upper and lower book cover, excluded a 3 mm broad edge parallel to the backbone both in front and in the back as well as the spine.

A fixed Schutzmunschlag connected with the Buchdecke has the advantage to that it cannot slip during the use of the book, and it can besides without the stamping and label of the Buchdecke is done. The Schutzmunschlag 8 can be marked and/or coined/shaped beyond that due to an accordingly thinner material substantially more economical.

Vorsatz-und the trailer record sheet 6.7 as usual on the inside of the Buchdecke stuck together, during that

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Schutzmunschlag 8 at least on the outside of the Buchdecke is stuck together. In the represented remark with play is the Schutzmunschlag 8 around the front edge on the inside of the book cover pulled and covers there still about half of the internal surface.

The Buchdecke can be formed with this embodiment relatively simply, for example by a cardboard from 0.8 to 2.0 mm or more. There this fixed Buchdecke with Vorsatz- bzw. Trailer record sheet as well as the Schutzmunschlag covered is, can without a complex label and/or stamping of the Buchdecke be done.

Vorsatz-und trailer record sheet 6.7 leaves itself with the Buchdecke (book cover 1.1 and/or. 1.2) in such a manner glue that Vorsatz-und the trailer record sheet exhibit a smooth surface. With the conventional binding usually unpleasant bulge in the edge area of Vorsatz-und trailer record sheet, which arises from the lamination of the conventional book cover and as a result of the adhering of the gauze on the inside of the book cover, develop.

The opened book exhibits a outstanding flat couch behavior, so that in particular also within the federation range no shadowing develops. Beyond that inside an image running over the collar can become printed with each quadripartite crease elbow, which is not affected in its quality by bad Passer in the area of the collar negative. Since no thread attaching is planned, also no needle partings result, from the glue penetrate, which could lead to a damage of the image.

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Although the individual sheets are not fixed by additional thread attaching, one results ausserer dentlich good durability of the binding, which is appropriate for about 50% more highly, as during a conventional adhesive bond.

A further advantage consists also of the fact that the backbone movable is trained and < themselves thereby: RTI ID=0.0> 1800</RTI> Flat couch behavior results in, whereby problem-free opening as well as an unhindered are made possible for Umblättern.